

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/98

Date Received: 07/02/98

Project: Metro Self Monitor, PO# M11598

Date Samples Extracted: 07/07/98

Date Extracts Analyzed: 07/08/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M11598	0.50	0.27	0.41	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 806132-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	0.72	0.72	0	0-20
Nickel	mg/L (ppm)	<0.05	<0.05	nm	0-20
Zinc	mg/L (ppm)	1.2	1.2	0	0-20

Laboratory Code: 806132-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	<0.05	97	98	80-120	1
Copper	mg/L (ppm)	5	0.72	99	99	80-120	0
Nickel	mg/L (ppm)	10	<0.05	97	100	80-120	3
Zinc	mg/L (ppm)	5	1.2	96	98	80-120	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	98	100	80-120	2
Copper	mg/L (ppm)	5	100	102	80-120	2
Nickel	mg/L (ppm)	10	99	100	80-120	1
Zinc	mg/L (ppm)	5	96	96	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

80701 ~~MM~~
OF CUSTODY
B1
7/2/98
11:55

11:55

Company H. Haskin Open Work Contract (Herald Thompson)
Address 628 Clarendon St.
City, State, Zip Seattle WA 98131
Phone # (206) 352-8379 Fax # (206) 352-4309 Date 7-2-98

PURCHASE ORDER #



✓ 11598

PROJECT LOCATION

3200 6th Ave. S.

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	Gerald Thompson	ACW	7-2-98	10:40
Received by: 	Olga Meydora	F & B Inc.	7-2-98	10:40
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 9, 1998

DUPLICATE COPY

INVOICE #98ACU0709-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

**RE: Project Metro Self Monitor, PO# M11598: Results of testing requested
by Gerry Thompson for material submitted on July 2, 1998.**

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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e-mail: fbi@isomedia.com

July 9, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 2, 1998 from your Metro Self Monitor, PO# M11598 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU0709R.DOC